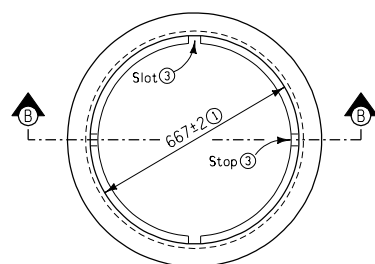
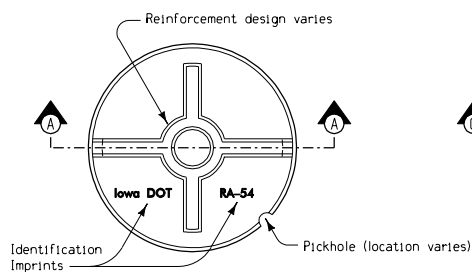


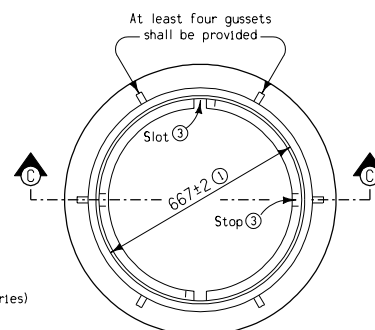
PLAN OF TOP



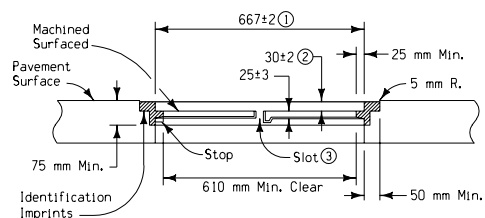
PLAN OF FRAME



PLAN OF BOTTOM



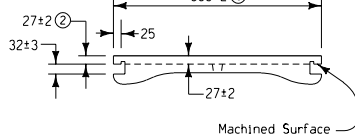
PLAN OF FRAME



SECTION B-B

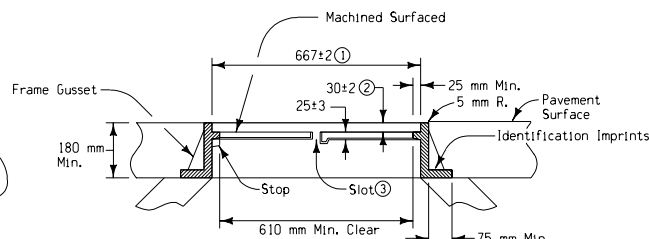
TYPE 1 FRAME

SLAB TYPE FOR CAST UTILITY ACCESSSES



SECTION A-A

COVER DETAILS



SECTION C-C

TYPE 2 FRAME

NECK BEARING TYPE FOR BUILT-UP UTILITY ACCESSSES

GENERAL NOTES:

All castings shall be Class 30 or better gray iron complying with current Standard and Supplemental Specifications. Finish of castings shall be smooth and free of defects. Painting of castings is not required; however, if used, paint shall be evenly applied and neither sticky nor brittle when dry.

Castings which will be subjected to roadway traffic (heavy) shall have fully machined bearing surfaces as indicated hereon. Machined portion of the frame shall completely accommodate the machined portion of the cover so that only machined surfaces come in contact.

An identification imprint "Iowa DOT RA-54" shall be placed on each frame and cover. The manufacturer may also imprint marks or trade names on the casting.

Heavyweight utility access covers as described shall be used with appropriate frames of either slab type or neck-bearing type whenever utility accesses are required to be subject to roadway traffic.

Unless specified otherwise, utility access covers shall not be paid for separately but shall be considered incidental to other work.

- ① Machining of vertical surfaces will be allowed if needed to conform to dimensional requirements.
- ② After machining.
- ③ Slots and stops for retaining lug are to be provided at 180 degrees as shown.

MINIMUM MASS		
	Frame	Cover
Type 1	68 kg	66 kg
Type 2	104 kg	66 kg

All dimensions given in millimeters unless noted.

METRIC VERSION	M	Iowa Department of Transportation Project Development Division	
		STANDARD ROAD PLAN	RA-54
		REVISION: Metric conversion of Standard Road Plan RA-26 no. 3 (dated 1-19-88).	REVISION NO. New
		APPROVED BY DESIGN METHODS ENGINEER	REVISION DATE 03-26-96
		CAST UTILITY ACCESS COVER (Heavy)	